

ABSTRACT OF THE DISCLOSURE

1 A generator generates a composite code from dithered copies of a reference
2 code to form an optimal stationary dither code. The generator either dithers the length
3 of the reference code to generate a boundary dither code composed of a series varying
4 length short codes, or it dithers the phase of the reference code to generate rotation
5 dither code composed of a series of fixed length short codes that vary in phase. The
6 generator dithers the reference code according to a dither pattern. The composite code
7 is an optimal dither code, having an optimal autocorrelation properties, by generating
8 a dither pattern in which phase vectors for the constituent code are not repeated within
9 the code.